

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P277442

Luminaire Tested: **22CZ2-20HE-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277442
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-20HE-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2015.0 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

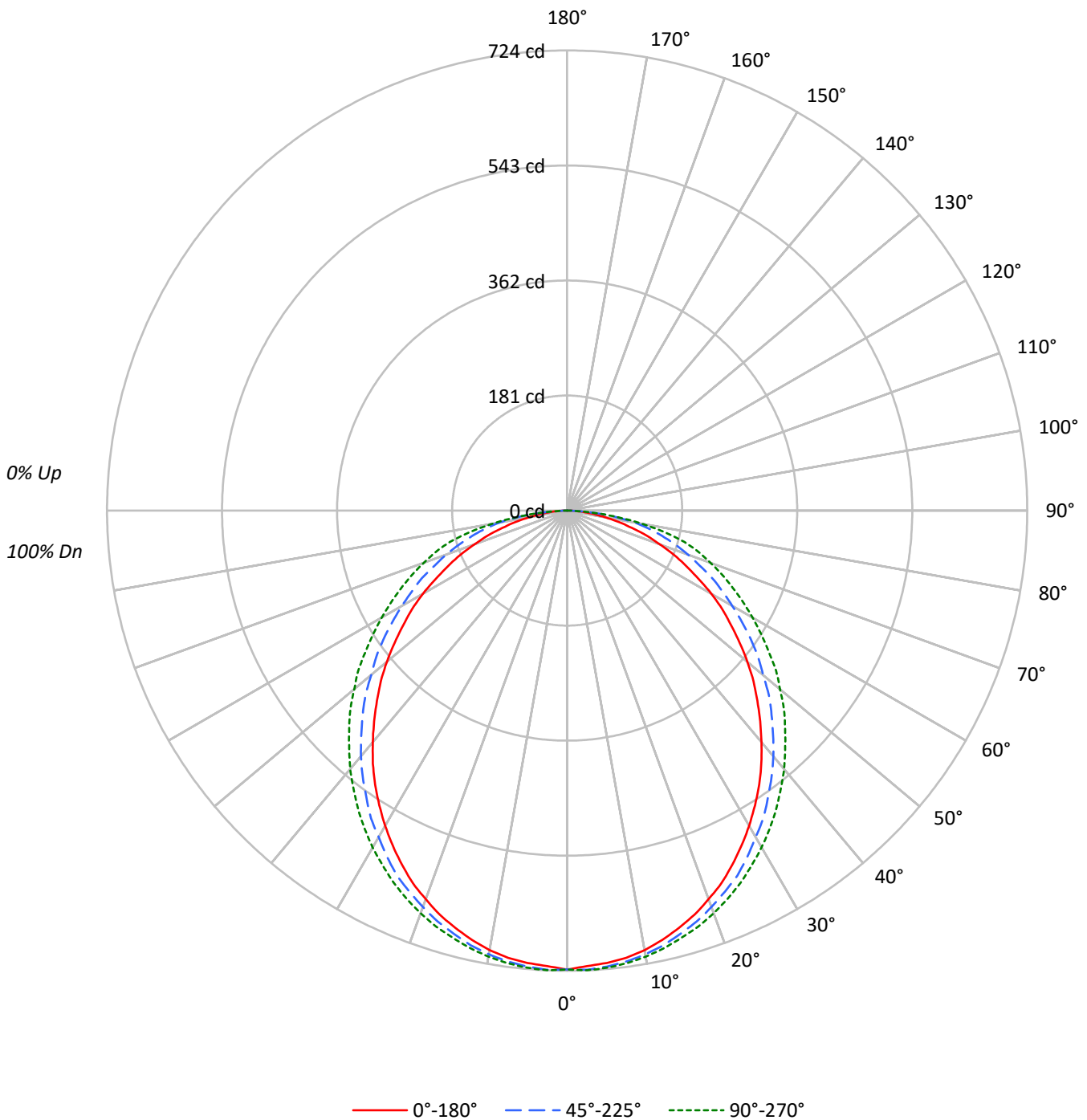
Input Watts (W): 16.275
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1943	1943	1943
5°	1930	1945	1950
10°	1919	1937	1947
15°	1894	1920	1938
20°	1863	1901	1930
25°	1826	1882	1918
30°	1779	1843	1902
35°	1730	1810	1884
40°	1671	1774	1866
45°	1610	1732	1846
50°	1551	1685	1830
55°	1478	1654	1817
60°	1412	1614	1812
65°	1317	1605	1832
70°	1213	1590	1886
75°	1095	1613	1985
80°	947	1661	1864
85°	784	1392	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.4
10°-20°	194.3	9.6
20°-30°	290.8	14.4
30°-40°	344.3	17.1
40°-50°	350.9	17.4
50°-60°	314.5	15.6
60°-70°	246.2	12.2
70°-80°	158.8	7.9
80°-90°	46.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	553.4	27.5
0°-40°	897.7	44.5
0°-60°	1563.1	77.6
0°-90°	2015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	714	716	720	721	722	68
15°	680	684	689	695	696	192
25°	615	620	634	642	646	283
35°	526	533	551	568	574	329
45°	423	432	455	478	485	327
55°	315	325	353	377	387	282
65°	207	219	252	276	288	205
75°	105	121	155	181	191	113
85°	25	35	45	45	45	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.0	722.0	722.0	722.0	722.0
2.5°	717.3	719.2	723.0	723.9	723.9
5°	714.5	716.4	720.2	721.1	722.0
7.5°	709.8	710.8	715.5	717.3	718.3
10°	702.3	704.2	708.9	711.7	712.6
12.5°	692.0	694.8	700.4	704.2	705.1
15°	679.7	683.5	689.1	694.8	695.7
17.5°	666.6	670.3	677.9	684.4	686.3
20°	650.6	655.3	663.7	671.3	674.1
22.5°	634.6	638.4	648.7	658.1	660.9
25°	614.9	620.5	633.7	642.1	645.9
27.5°	594.2	600.8	613.9	625.2	629.0
30°	572.6	579.1	593.2	607.3	612.0
32.5°	550.0	557.5	574.4	588.5	593.2
35°	526.5	533.1	550.9	567.9	573.5
37.5°	502.0	507.7	528.4	546.2	551.9
40°	475.7	483.2	504.9	525.5	531.2
42.5°	449.4	457.9	479.5	502.0	507.7
45°	423.1	432.5	455.0	478.5	485.1
47.5°	397.7	405.2	430.6	453.2	462.6
50°	370.4	377.9	402.4	427.8	437.2
52.5°	342.2	352.6	378.9	403.3	414.6
55°	315.0	325.3	352.6	377.0	387.3
57.5°	289.6	298.0	326.2	351.6	362.0
60°	262.3	269.8	299.9	327.2	336.6
62.5°	233.2	244.4	275.5	300.8	312.1
65°	206.8	219.1	252.0	276.4	287.7
67.5°	182.4	193.7	225.6	252.0	264.2
70°	154.2	169.2	202.1	228.5	239.7
72.5°	131.6	144.8	178.6	205.0	217.2
75°	105.3	121.3	155.1	181.4	190.9
77.5°	83.7	99.7	131.6	152.3	157.0
80°	61.1	77.1	107.2	117.5	120.3
82.5°	41.4	56.4	77.1	79.9	80.9
85°	25.4	34.8	45.1	45.1	45.1
87.5°	12.2	14.1	16.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)